



11069

## INSTRUMENT APPROACH PROCEDURE CHARTS



## IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

## Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

## NAME TAKE-OFF MINIMUMS

## ALTURAS, CA

ALTURAS MUNI (AAT)

AMDT 2 08101 (FAA)

DEPARTURE PROCEDURE: Use BACHS DEPARTURE.

## AMEDEE AAF (KAHC),

HERLONG, CA. . . . . AMDT 1, 09239

**Rwy 8, 26:** 4000-3 for climb in visual conditions.**Rwy 8, 26:** Cross Amedee AAF at or above 7900 before proceeding on course.

## NAME TAKE-OFF MINIMUMS

## ARCATA-EUREKA, CA

ARCATA

TAKE-OFF MINIMUMS: **Rwy 1**, std. w/ a min. climb of 429' per NM to 1900. **Rwy 14**, 600-2½ or std. w/ a min. climb of 486' per NM to 1000'.DEPARTURE PROCEDURE: **Rwy 1**, climbing left turn thence..., or for climb in visual conditions: cross Arcata Airport westbound at or above 1100, thence... **Rwys 14, 19**, climbing right turn thence... **Rwy 32**, climbing left turn thence...

...via ACVR R-250 to HOCUT INT and continue climb to MEA on V27.

NOTE: **Rwy 1**, multiple trees beginning 182' from departure end of runway, 11' right of centerline, up to 161' AGL/370' MSL. Multiple trees beginning 281' from departure end of runway, 86' left of centerline, up to 148' AGL/357' MSL. **Rwy 14**, multiple trees beginning 838' from departure end of runway, 372' left of centerline, up to 200' AGL/759' MSL. Multiple trees beginning 1286' from departure end of runway, 716' right of centerline, up to 65' AGL/286' MSL. **Rwy 19**, multiple trees beginning 57' from departure end of runway, 270' right of centerline, up to 30' AGL/218' MSL. **Rwy 32**, multiple trees beginning 113' from departure end of runway, 211' right of centerline, up to 86' AGL/267' MSL. Multiple trees 1' from departure end of runway, 161' left of centerline, up to 21' AGL/202' MSL. Obstruction light 426' from departure end of runway, 257' right of centerline, 21' AGL/202' MSL.

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## AUBURN, CA

AUBURN MUNI (AUN)

AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1 w/ min. climb of 385' per NM to 2300, or 1100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 7**, climbing left turn to 5000 heading 310°, and MYV VOR/DME R-083 to MYV VOR/DME, then via MYV VOR/DME R-263 to YUBBA INT before proceeding on course, or for climb in visual conditions: cross Auburn Muni airport at or above 2500, continue climb to 5000 via heading 275° and MYV VOR/DME R-094 to MYV VOR/DME, then via MYV VOR/DME R-263 to YUBBA INT before proceeding on course.

NOTE: **Rwy 7**, trees beginning 1117' from DER, 504' right of centerline, up to 40' AGL/1708' MSL. Pole 1365' from DER, 600' right of centerline, 59' AGL/1679' MSL. Tree 3791' from DER, 700' right of centerline, 40' AGL/1639' MSL. **Rwy 25**, tree 37' from DER, 479' left of centerline, 40' AGL/1528' MSL. Tree 86' from DER, 461' right of centerline, 40' AGL/1532' MSL. Fence 301' from DER, 244' right of centerline, 8' AGL/1508' MSL. Trees beginning 660' from DER, 249' right of centerline, up to 40' AGL/1559' MSL.

## BEALE AFB (KBAB)

MARYSVILLE, CA. . . . .ORIG, 09155

DEPARTURE PROCEDURE: **Rwy 15**, Climb on a heading between 100° CW to 325° from DER. **Rwy 33**, Climb on a heading between 146° CW to 344° from DER.

TAKE-OFF OBSTACLES: **Rwy 33**, Terrain 118' MSL, 62' from DER, 500' right of centerline. Terrain 119' MSL, 190' from DER, 551' right of centerline.

## BECKWOURTH, CA

NERVINO

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 3500-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 7, 25**, for climb in visual conditions: cross Nervino Airport at or above 8300 before proceeding on course.

NOTE: **Rwy 7**, road 58' from departure end of runway, 469' right of centerline, 15' AGL/4920' MSL. Pole 310' from departure end of runway, 522' right of centerline, 49' AGL/4925' MSL. Pole 528' from departure end of runway, 522' right of centerline, 39' AGL/4924' MSL. Tree 1.47 NM from departure end of runway, 727' right of centerline, 100' AGL/5193' MSL. Tree 1.9 NM from departure end of runway, 2534' right of centerline, 100' AGL/5499' MSL. Bush 2.03 NM from departure end of runway, 2126' right of centerline, 4' AGL/5406' MSL. **Rwy 25**, tree 5856' from departure end of runway, 1984' right of centerline, 100' AGL/5339' MSL. Tree 1.25 NM from departure end of runway, 2439' right of centerline, 100' AGL/5420' MSL. Tree 2.07 NM from departure end of runway, 3302' left of centerline, 100' AGL/5570' MSL.

## BISHOP, CA

EASTERN SIERRA RGNL (BIH)

AMDT 3 10322 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7, 12, 16**, NA-terrain.

**Rwy 25**, std. w/ min. climb of 280' per NM to 10300.

**Rwys 30, 34**, std. w/ min. climb of 285' per NM to 10300.

DEPARTURE PROCEDURE: **Rwys 25, 30**, climbing right turn on heading 360, thence...

**Rwy 34**, climb left turn on heading 290°, thence...

...all aircraft intercept BIH R-322 to NIKOL INT/BIH 38.46 DME.

NOTE: **Rwy 25**, trees and bushes beginning 69' from DER, 32' right of centerline, up to 100' AGL/4234' MSL. Trees beginning 709' from DER, 31' left of centerline, up to 47' AGL/4167' MSL. **Rwy 30**, rising terrain 58' from DER, 422' right of centerline, 4143' MSL. Trees beginning 763' from DER, 155' right of centerline, up to 100' AGL/4207' MSL. Trees beginning 1598' from DER, 21' left of centerline, up to 100' AGL/4205' MSL. **Rwy 34**, trees beginning 83' from DER, 31' right of centerline, up to 60' AGL/4146' MSL. Rising terrain 31' from DER, 348' left of centerline, 4118' MSL. Trees beginning 95' from DER, 141' left of centerline, up to 60' AGL/4146' MSL.

## BYRON, CA

BYRON

TAKE-OFF MINIMUMS: **Rwy 23**, NA-obstacles.

**Rwy 30**, 200-1 or std. with a min. climb of 240' per NM to 300. Alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via heading 120° and ECA VORTAC before proceeding on course. **Rwy 12**, climbing left turn via heading 050° and ECA VORTAC R-250 to ECA VORTAC before proceeding on course. **Rwy 30**, climbing right turn via heading 130° and ECA VORTAC R-250 to ECA VORTAC before proceeding on course.

NOTE: **Rwy 5**, bush 17' from departure end of runway, 67' right of centerline, 6' AGL/52' MSL. **Rwy 12**, multiple trees and bush beginning 240' from departure end of runway, 286' right of centerline, up to 39' AGL/76' MSL. **Rwy 30**, multiple poles, building, and terrain beginning 66' from departure end of runway, 228' left of centerline, up to 65' AGL/225' MSL. Multiple poles beginning 949' from departure end of runway, 28' right of centerline, up to 42' AGL/103' MSL.

## CHICO, CA

CHICO MUNI

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. **All aircraft**, climb via CIC R-205 to JINGO Int. Aircraft departing JINGO Int 020° CW 350° climb on course. All others climb in JINGO Int holding pattern (SE, right turns, 320° inbound) to depart JINGO Int at or above 2800.

## CLOVERDALE, CA

### CLOVERDALE MUNI

TAKE-OFF MINIMUMS: **Rwy 14**, 400-2 or std. with a min. climb of 280' per NM to 1500, then a min. climb of 260' per NM to 3900. **Rwy 32**, NA.

DEPARTURE PROCEDURE: **Rwy 14**, climb direct STS VOR/DME. Continue climb in holding pattern (NW right turns, 140° inbound) to MEA for route of flight.

NOTE: **Rwy 14**, tree 9337' from departure end of runway, 4633' right of centerline, 150' AGL/889' MSL.

## COLUMBIA, CA

### COLUMBIA

TAKE-OFF MINIMUMS: **Rwy 17**, 300-1 with a min. climb rate of 300' per NM to 3000. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use FICHU RNAV DEPARTURE. **Rwy 35**, NA.

NOTE: **Rwy 17**, 51' AGL pole 502' from departure end of runway, 368' right of centerline, 90' AGL tree 483' from departure end of runway, 535' right of centerline; 100 AGL tree 1258' from departure end of runway, 494' left of centerline; 167' AGL tree 1644' from departure end of runway, 924' right of centerline.

## COLUSA, CA

### COLUSA COUNTY

DEPARTURE PROCEDURE: Climb direct to ILA VORTAC.

## CONCORD, CA

### BUCHANAN FIELD (CCR)

#### AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwys 1L/R**, std. w/ min. climb of 360' per NM to 1100, or 2200-3 for climb in visual conditions. **Rwys 14L/R**, std. w/ min. climb of 420' per NM to 2700, or 2200-3 for climb in visual conditions.

**Rwys 19L/R**, std. w/ min. climb of 490' per NM to 4000, or 2200-3 for climb in visual conditions. **Rwys 32L/R**, std. w/ min. climb of 320' per NM to 500, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 1L/R**, climb direct CCR VOR/DME, or climb in visual conditions to cross Buchanan Airport northbound at or above 2100 via CCR R-173 to CCR VOR/DME, thence... **Rwys 14L/R, 19L/R** climbing left turn direct CCR VOR/DME, or climb in visual conditions to cross Buchanan Airport northbound at or above 2100 via CCR R-173 to CCR VOR/DME, thence... **Rwys 32L/R**, climbing right turn direct CCR VOR/DME, or climb in visual conditions to cross Buchanan Airport northbound at or above 2100 via CCR R-173 to CCR VOR/DME, thence...

...aircraft departing CCR VOR/DME R-150 clockwise R-110 climb on course. All others climb in CCR VOR/DME holding pattern (north, left turns, 191° inbound) to cross CCR VOR/DME at or above 2700 before proceeding on course.

## CONCORD, CA (CON'T)

### BUCHANAN FIELD (CON'T)

NOTE: **Rwy 1L**, multiple trees and bushes beginning 675' from departure end of runway, 9' left of centerline, up to 48' AGL/98' MSL. Multiple poles, light poles and antennas on buildings beginning 639' from departure end of runway, 120' left of centerline, up to 50' AGL/72' MSL. Fence 117' from departure end of runway, 2' right of centerline, 12' AGL/29' MSL. Sign 1996' from departure end of runway, 812' left of centerline, 45' AGL/78' MSL. Flaggpole 1520' from departure end of runway, 753' left of centerline, 40' AGL/71' MSL. **Rwy 1R**, multiple trees and poles beginning 1552' from departure end of runway, 98' right of centerline, up to 52' AGL/131' MSL. **Rwy 19R**, multiple trees beginning 604' from departure end of runway, 82' left of centerline, up to 70' AGL/108' MSL. Light pole 1392' from departure end of runway, 749' right of centerline, 51' AGL/71' MSL. Obstruction light on building 2451' from departure end of runway, 911' left of centerline, 73' AGL/97' MSL. Fence 123' from departure end of runway, 503' left of centerline, 6' AGL/30' MSL. **Rwy 19L**, multiple trees beginning 2132' from departure end of runway, 28' left of centerline, up to 70' AGL/106' MSL. **Rwy 32L**, road/vehicle 561' from departure end of runway, on centerline, 15' AGL/49' MSL. Light on tank 6617' from departure end of runway, 1926' right of centerline, 114' AGL/213' MSL. Hangar 259' from departure end of runway, 300' left of centerline, 21' AGL/37' MSL. Transmission tower 6015' from departure end of runway, 1338' left of centerline, 145' AGL/173' MSL. Tree 825' from departure end of runway, 136' left of centerline, 25' AGL/40' MSL, building 633' from departure end of runway, 254' right of centerline, 20' AGL/35' MSL. **Rwy 32R**, train 6345' from departure end of runway, 1948' left of centerline, 23' AGL/102' MSL, obstruction light on hopper 2110' from departure end of runway, 601' right of centerline, 79' AGL/99' MSL. Obstacle light on tank 6617' from departure end of runway, 1426' right of centerline, 193' AGL/213' MSL. Flaggpole 655' from departure end of runway, 300' right of centerline, 35' AGL/43' MSL. Sign 697' from departure end of runway, 248' right of centerline, 25' AGL/41' MSL. Road/vehicle 561' from departure end of runway, on centerline, 15' AGL/49' MSL. Building 633' from departure end of runway, 246' left of centerline, 20' AGL/35' MSL, tree 825' from departure end of runway, 635' left of centerline, 25' AGL/40' MSL, transmission tower 6015' from departure end of runway, 1839' left of centerline, 145' AGL/173' MSL. **Rwy 14R**, obstacle lights, obstacle lights on buildings, obstacle lights on windsocks, buildings and trees beginning 412' from departure end of runway, 167' right of centerline, up to 104' AGL/136' MSL. **Rwy 14L**, multiple trees beginning 841' from departure end of runway, 61' left of centerline, up to 78' AGL/102' MSL, building 1071' from departure end of runway, 35' left of centerline, 30' AGL/58' MSL. Fence 225' from departure end of runway, 29' left of centerline, 12' AGL/33' MSL.

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**CRESCENT CITY, CA**  
**JACK MCNAMARA FIELD**

TAKE-OFF MINIMUMS: **Rwy 11**, 300-1. **Rwy 17**, 300-1 or std. with a min. climb of 240' per NM to 300.

DEPARTURE PROCEDURE: **Rwys 11, 17**, climbing right turn. **Rwys 29, 35**, climbing left turn. **All aircraft**, climb direct CEC VORTAC. Aircraft departing CEC R-131 CW R-330 climb on course. All others continue climb in CEC holding pattern (S, left turns, 341° inbound) to cross CEC VORTAC at or above: R-331 CW R-010, 1100; R-011 CW R-050, 2200; R-051 CW R-090, 4100; R-091 CW R-130, 2700.

**DAVIS, CA**  
**UNIVERSITY (EDU)**  
**AMDT 3 09127 (FAA)**

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn via heading 200° and ILA R-151 to EMBER INT/ILA 48 DME before proceeding on course. **Rwy 35**, climbing left turn via heading 320° and ILA R-145 to ILA VORTAC before proceeding on course.

NOTE: **Rwy 17**, trees beginning 1353' from DER, 31' right of centerline, up to 40' AGL/109' MSL. **Rwy 35**, tree 24' from DER, 433' left of centerline, 40' AGL/104' MSL. Vehicle 288' from DER, on centerline, 15' AGL/74' MSL.

**DAVIS/WOODLAND/WINTERS, CA**  
**YOLO COUNTY (DWA)**  
**AMDT 1 09127 (FAA)**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 164° to 2100 before turning right. **Rwy 34**, climb heading 344° to 1500 before turning left.

NOTE: **Rwy 16**, multiple trees beginning 595' from DER, 308' right of centerline, up to 120' AGL/206' MSL. Multiple trees beginning 1046' from DER, 257' left of centerline, up to 120' AGL/195' MSL. **Rwy 34**, multiple trees beginning 417' from DER, 361' right of centerline, up to 120' AGL/206' MSL. Trees beginning 683' from DER, 491' left of centerline, up to 120' AGL/206' MSL. Pole 859' from DER, 548' left of centerline, 47' AGL/137' MSL.

**EUREKA, CA**  
**MURRAY FIELD (EKA)**  
**AMDT 4 09239 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 465' per NM to 1800 or 3800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12** climbing right turn heading 265° to intercept V27. For climb in visual conditions: cross Eureka airport at or above 3700 before proceeding on course. **Rwy 30**, climbing left turn heading 265° to intercept V27.

NOTE: **Rwy 12**, bush 50' from DER, 82' left of centerline, 6' AGL/16' MSL. Multiple trees beginning 1.5 NM from DER, 2993' left of centerline. Multiple trees beginning 1.6 NM from DER, 2318' right of centerline. **Rwy 30**, multiple trees, beginning 443' from DER, 389' right of centerline, up to 93' AGL/103' MSL. Tree 664' from DER, 587' left of centerline, 46' AGL/56' MSL. Pole 753' from DER, 155' right of centerline 27' AGL/37' MSL. Railroad 786' from DER, 4' left of centerline 23' AGL/31' MSL. Road beginning 602' from DER, 4' left of centerline up to 15' AGL/23' MSL. Bush 566' from DER, 69' left of centerline, 8' AGL/18' MSL.

**FIREBAUGH, CA**  
**FIREBAUGH**

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn. **Rwy 30**, climbing left turn. **All aircraft** climb via heading 150° and PXN R-061 to MENDO Int. Aircraft departing MENDO Int, heading 230° CW 150° climb on course. All others climb in MENDO holding pattern (NE, right turns, 241° inbound) to cross MENDO Int at or above 2000.

**FORTUNA, CA**  
**ROHNERVILLE**

TAKE-OFF MINIMUMS: **Rwy 11**, NA.

DEPARTURE PROCEDURE: Climb direct FOT VORTAC. Continue climb in holding pattern (N, right turns, 161° inbound) to cross FOT VORTAC at or above 3000.

**FRESNO, CA**

**FRESNO-CHANDLER EXECUTIVE (FCH)**  
**AMDT 2 09015 (FAA)**

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 111° to 2000 then climbing right turn to 6300 via heading 200° and CZQ VORTAC R-167 before proceeding on course. **Rwy 30**, climb heading 291° to 2000 then climbing left turn to 5500 via heading 140° and CZQ VORTAC R-167 before proceeding on course.

NOTE: **Rwy 12**, multiple trees, poles, and terrain beginning 84' from departure end of runway, 16' left of centerline, up to 92' AGL/371' MSL. Multiple trees, poles, road, fence and terrain beginning 53' from departure end of runway, 94' right of centerline, up to 62' AGL/341' MSL. **Rwy 30**, multiple trees, poles, bushes and terrain beginning 125' from departure end of runway, 46' left of centerline, up to 111' AGL/389' MSL. Multiple poles, road, and fence beginning 236' from departure end of runway, 23' right of centerline, up to 42' AGL/320' MSL.

**FRESNO YOSEMITE INTL**

DEPARTURE PROCEDURE: **Rwys 11L, 11R**, climbing left turn direct CZQ VORTAC. **Rwys 29L, 29R**, climbing right turn direct CZQ VORTAC. All aircraft climb in CZQ VORTAC holding pattern (SE, left turns, 322° inbound) to cross CZQ VORTAC at or above MEA/MCA for direction of flight before proceeding en route.

NOTE: **Rwy 11L**, pole 647' from departure end of runway, 543' left of centerline, 17' AGL/349' MSL. Sign 1693' from departure end of runway, 863' right of centerline, 53' AGL/383' MSL. **Rwy 11R**, transmitter 432' from departure end of runway, 281' left of centerline, 19' AGL/349' MSL. Light, 1701' from departure end of runway, 293' right of centerline, 53' AGL/386' MSL. **Rwy 29L**, arresting sys, 124' from departure end of runway, 527' right of centerline, 2' AGL/334' MSL. Building 219' from departure end of runway, 296' left of centerline, 7' AGL, 336' MSL. **Rwy 29R**, trees 1076' from departure end of runway, 775' right of centerline, 63' AGL/397' MSL. Arresting sys, 95' from departure end of runway, 149' right of centerline, 3' AGL/336' MSL. Multiple trees beginning 1076' from departure end of runway, 775' right of centerline, up to 75' AGL/397' MSL.

**GRASS VALLEY, CA**  
**NEVADA COUNTY AIR PARK**

TAKE-OFF MINIMUMS: **Rwy 7**, NA.

DEPARTURE PROCEDURE: **Rwy 25**, climb via MYV R-058 to 6000 then continue climb on course.

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**GROVELAND, CA****PINE MOUNTAIN LAKE**

TAKE-OFF MINIMUMS: **Rwy 9**, 400-2 or std. with a min. climb of 400' per NM to 4000.

DEPARTURE PROCEDURE: **Rwy 9**, turn right.

**Rwy 27**, turn left. **All aircraft** climb direct LIN VORTAC. Cross LIN VORTAC at or above 5000.

**HALF MOON BAY, CA****HALF MOON BAY**

TAKE-OFF MINIMUMS: **Rwy 12**, 2600-2 or std. with a min. climb of 300' per NM to 3000. **Rwy 30**, NA.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 3000, then climb direct OSI VORTAC, to cross OSI VORTAC at or above 3500 before proceeding on course.

**HANFORD, CA****HANFORD MUNI**

DEPARTURE PROCEDURE: **Rwy 14**, climbing left turn heading 050° to intercept V-23. **Rwy 32**, climbing right turn heading 050° to intercept V-23.

**HAYWARD, CA****HAYWARD EXECUTIVE (HWD)**

AMDT1 11013 (FAA)

DEPARTURE PROCEDURE: **Rwys 10L, 10R**, Climbing right turn direct OSI VORTAC. **Rwys 28L, 28R**, Climbing left turn direct OSI VORTAC.

NOTE: **Rwy 10L**, hangars, trees and buildings beginning 625' from DER, 67' left of centerline, up to 100' AGL/155' MSL. Trees beginning 2050' from DER, 1' right of centerline, up to 60' AGL/107' MSL. **Rwy 10R**, trees, poles, and buildings beginning 21' from DER, 61' left of centerline, up to 100' AGL/155' MSL. Windsock, blast fence, trees, buildings and pole beginning 23' from DER, 38' right of centerline, up to 74' AGL/119' MSL. **Rwy 28L**, trees beginning 899' from DER, 141' left of centerline, up to 93' AGL/108' MSL. Antennas, road, and trees beginning 108' from DER, 68' right of centerline, up to 87' AGL/102' MSL. **Rwy 28R**, antenna and trees beginning 728' from DER, 28' left of centerline, up to 87' AGL/102' MSL. Trees beginning 391' from DER, 4' right of centerline, up to 95' AGL/125' MSL.

**HOLLISTER, CA****HOLLISTER MUNI (CVH)**

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA-obstacles. **Rwy 24**, NA-ATC. **Rwy 13**, std. w/ min. climb of 391' per NM to 3500, or 3100-3 for climb in visual conditions. **Rwy 31**, std. w/ min climb of 209' per NM to 2300, or 3100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climbing right turn to heading 332° and via SJC R-121 direct SJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course. **Rwy 31**, climb heading 307° and via SJC R-121 direct SJC VOR/DME to 6000 before proceeding on course or for climb in visual conditions: cross Hollister Muni Airport at or above 3100 MSL before proceeding on course.

NOTE: **Rwy 13**, terrain beginning 992' from departure end of runway, 348' left of centerline, up to 289' MSL. Terrain beginning 2467' from departure end of runway, 154' right of centerline, up to 309' MSL, trees beginning 1277' from departure end of runway, 348' left of centerline, up to 309' MSL, trees beginning 2467' from departure end of runway, 153' right of centerline, up to 270' MSL. **Rwy 31**, terrain beginning 76' from departure end of runway, 392' left of centerline, up to 247' MSL. Terrain beginning 14' from departure end of runway, 179' right of centerline, up to 231' MSL.

**JACKSON, CA****WESTOVER FIELD AMADOR COUNTY**

DEPARTURE PROCEDURE: **Rwy 1**, turn left.

**Rwy 19**, turn right. **All aircraft** climb direct LIN VORTAC, continue climb on course.

**LAKEPORT, CA****LAMPSON FIELD (102)**

ADMT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. with a min. climb of 400' per NM to 4500, do not exceed 210 Knots until intercepting the ENI R-073 or 3200-3 for climb in visual conditions. **Rwy 28**, NA-Rapidly rising terrain.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn to 6000 via heading 310° and ENI R-073 to ENI VORTAC before proceeding on course, or for climb in visual conditions: cross Lampson Field at or above 4400 MSL before proceeding on course.

NOTE: **Rwy 10**, vehicle on road 347' from DER, 7' right of centerline, 15' AGL/1394' MSL. Trees beginning 280' from DER, 201' left of centerline, up to 100' AGL/1479' MSL. Trees beginning 494' from DER, 219' right of centerline, up to 100' AGL/1479' MSL.

**LEMOORE NAS (REEVES FIELD) (KNLC)**

LEMOORE, CA . . . . . 07270

**Rwy 14L**, Cross DER at or above 15' AGL/235' MSL. **Rwy 14R**, Cross DER at or above 15' AGL/245' MSL. **Rwy 32L**, Cross DER at or above 15' AGL/234' MSL, Departure headings 142° CW 283°, minimum military climb 220 ft/NM to 6400, minimum civil climb 220 ft/NM to 6600.

**Rwy 32R**, Cross DER at or above 15' AGL/239' MSL, Departure headings 142° CW 281° minimum military climb 220 ft/NM to 6400, minimum civil climb 220 ft/NM to 6600.



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## LINCOLN, CA

LINCOLN RGNL/KARL HARDER FIELD  
DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn. **Rwy 33**, climbing left turn. **All aircraft** climb direct MYV VOR/DME, then climb on course.

## LITTLE RIVER, CA

LITTLE RIVER (LLR)  
ORIG 10154 (FAA)  
DEPARTURE PROCEDURE: Use LITTLE RIVER DEPARTURE.

## LIVERMORE, CA

LIVERMORE MUNI  
TAKE-OFF MINIMUMS: **Rwys 7L, 7R**, 1500-2 or std. with a min. climb of 260' per NM to 2200.  
**Rwys 25L, 25R**, 2300-2 or std. with a min. climb of 375' per NM to 3100.  
DEPARTURE PROCEDURE: **Rwys 7L, 7R**, climb direct REIGALOM, then climbing left turn via the 030° bearing from REIGALOM to intercept V109, then proceed on course. **Rwys 25L, 25R**, climb runway heading to 1200, then climbing right turn via heading 020° and OAK R-060 to ALTAM Int, then proceed on course.

## LODI, CA

LODI (103)  
AMDT 2 10322 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 12, 30**, NA-Environmental.  
DEPARTURE PROCEDURE: **Rwy 8**, climb heading 076° to 600 then climbing right turn on LIN R-290 to LIN VORTAC, thence...  
**Rwy 26**, climb heading 256° to 800 climbing right turn on heading 080° to intercept LIN R-290 to LIN VORTAC, thence...  
...continue climb in hold (hold Southeast, right turns, 326° inbound) to MCA or MEA for route of flight.  
NOTE: **Rwy 8**, multiple hangars, buildings, and vehicles on roadways beginning at DER, left and right of centerline, up to 25' AGL/84' MSL.  
Powerlines beginning at 4.9 NM from DER, left and right of centerline, up to 160' AGL/220' MSL. **Rwy 26**, vehicles on roadway beginning 7' from DER, 265' right of centerline, up to 15' AGL/69' MSL. Trees beginning 15' from DER, left and right of centerline, up to 100' AGL/154' MSL. Powerlines beginning at 4.6 NM from DER, left and right of centerline, up to 160' AGL/220' MSL.

## LOS BANOS, CA

LOS BANOS MUNI (LSN)  
AMDT 2 09351 (FAA)  
DEPARTURE PROCEDURE: **Rwy 14**, climb on a heading between 318° CW to 151° from DER, or minimum climb of 320' per NM to 5100 for all other courses. **Rwy 32**, climb on a heading between 260° CW to 137° from DER, or minimum climb of 273' per NM to 5200 for all other courses.  
NOTE: **Rwy 14**, multiple trees, poles, buildings beginning 3' from DER, 24' left of centerline, up to 73' AGL/194' MSL. Multiple trees, poles, buildings beginning 20' from DER, 21' right of centerline, up to 85' AGL/206' MSL. **Rwy 32**, multiple trees beginning 220' from DER, 453' right of centerline, up to 40' AGL/160' MSL. Multiple poles, beginning 1120' from DER, 173' left of centerline, up to 60' AGL/181' MSL.

## MADERA, CA

MADERA MUNI  
DEPARTURE PROCEDURE: **Rwy 30**, climbing right turn via FRA R-243 to BEREN Int/FRA 18.6 DME then via assigned route. **Rwy 12**, turn left, climb heading 095° to 1500, continue climb direct CZQ VORTAC, then via assigned route.

## MAMMOTH LAKES, CA

MAMMOTH YOSEMITE (MMH)  
AMDT 1 10266 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 9**, std. w/ min. climb of 400' per NM to 10700. **Rwy 27**, std. w/ min. climb of 590' per NM to 12200. **Rwy 27**, NA at night.  
DEPARTURE PROCEDURE: **Rwy 9**, climb heading 094° to 10700, then climbing left turn heading 052° to intercept BIH R-322 northwestbound to NIKOL INT before proceeding on course. **Rwy 27**, climbing right turn heading 052° to intercept BIH R-322 northwest bound to NIKOL INT before proceeding on course. Note: Rwy 27 NA at night. Do not exceed 250 KIAS until established on 052° heading.  
NOTE: **Rwy 9**, vehicles on roadway 11' from DER, 460' right of centerline, up to 15' AGL/7078' MSL. Tree 4900' from DER, 1057' right of centerline 100' AGL/7283' MSL. Tree 1585' from DER, 659' left of centerline, 100' AGL/7152' MSL. **Rwy 27**, vehicles on roadway 178' from DER, 461' left of centerline, up to 15' AGL/7160' MSL. Bushes beginning 211' from DER, from 269' left of centerline, up to 15' AGL/7150' MSL. Building 386' from DER, 434' right of centerline, 28' AGL/7155' MSL. Tree 2470' from DER, 642' right of centerline, 100' AGL/7218' MSL.



## MARINA, CA

MARINA MUNI (OAR)

ADMT 2 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 11**, std. with a min. climb of 307' per NM to 4500, or 2000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climb heading 108° and SNS VORTAC R-252 to SNS VORTAC, thence..., or for climb in visual conditions: cross Marina Muni Airport at or above 2100, then proceed on SNS VORTAC R-261 to SNS VORTAC, thence... **Rwy 29**, climb via heading 288° to 1200', then climbing right turn direct SNS VORTAC, thence...

**All aircraft** continue climb in SNS holding pattern (West, left turns, 084° inbound) to cross SNS VORTAC at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 11**, windsock 32' from DER, 386' left of centerline, 8' AGL/148' MSL. **Rwy 29**, bush 158' from DER, 272' right of centerline, 10' AGL/142' MSL.

## MARIPOSA, CA

MARIPOSA-YOSEMITE

TAKE-OFF MINIMUMS: **Rwy 8**, N/A-Obstacles

DEPARTURE PROCEDURE: **Rwy 26**, climb via heading 265° to 3000, then climbing left turn to 7000 direct FRA VORTAC before proceeding on course.

NOTE: **Rwy 26**, tree 10' from departure end of runway, 313' left of centerline, 100' AGL/2265' MSL. Tree 1146' from departure end of runway, 303' left of centerline, 100' AGL/2298' MSL.

## MARYSVILLE, CA

YUBA COUNTY

DEPARTURE PROCEDURE: **All runways**, climb direct ILA VORTAC.

## MERCED, CA

CASTLE (MER)

ADMT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 250' per NM to 2500 or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb heading 126° to 2500 before turning left. For climb in visual conditions: Cross Castle Airport at or above 2200 before proceeding on course. **Rwy 31**, climb heading 306° to 1100 before turning right.

NOTE: **Rwy 13**, tree 2539' from departure end of runway, 1005' right of centerline, 89' AGL/261' MSL. **Rwy 31**, Tree 1274' from departure end of runway, 829' left of centerline, 20' AGL/224' MSL. Trees beginning 2909' from departure end of runway, 542' right of centerline, 65' AGL/269' MSL.

## MERCED RGNL/MACREADY FIELD (MCE)

ADMT 5A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn to 3000 via heading 330° and MOD R-120 to MOD. **Rwy 30**, climb to 3000 via heading 300° and MOD R-120 to MOD.

## MODESTO, CA

MODESTO CITY-COUNTY HARRY SHAM

FIELD (MOD)

ADMT 5 08269 (FAA)

DEPARTURE PROCEDURE: **Rwys 28L, 28R**, climb on a heading between 256° CW to 109° from departure end of runway, or minimum climb of 230' per NM to 5000 for all other courses.

NOTE: **Rwy 10R**, post 55' from departure end of runway, 204' right of centerline, 15' AGL/85' MSL. Multiple trees beginning 180' from departure end of runway, 295' right of centerline, up to 105' AGL/194' MSL. Multiple trees beginning 839' from departure end of runway, 81' left of centerline, up to 88' AGL/148' MSL. **Rwy 10L**, multiple trees beginning 915' from departure end of runway, 598' right of centerline, up to 87' AGL/167' MSL. **Rwy 28R**, pole 746' from departure end of runway, 700' right of centerline, 40' AGL/133' MSL. Pole 1414' from departure end of runway, 624' right of centerline, 40' AGL/133' MSL. Multiple trees beginning 2069' from departure end of runway, 378' left of centerline, up to 74' AGL/173' MSL. Building 2176' from departure end of runway, 21' left of centerline, 56' AGL/151' MSL. **Rwy 28L**, light pole 142' from departure end of runway, 519' left of centerline, 40' AGL/136' MSL. Hanger 358' from departure end of runway, 306' left of centerline, 15' AGL/109' MSL. Multiple trees beginning 745' from departure end of runway, 375' left of centerline, up to 79' AGL/173' MSL. Multiple trees, building and antenna beginning 1170' from departure end of runway, 322' right of centerline, up to 57' AGL/152' MSL.

## MONTAGUE, CA

SISKIYOU COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, CAT A, B 2400-2 or std. with a min. climb of 350' per NM to 5500. CAT C, D 4100-2 or std. with a min. climb of 350' per NM to 7400. **Rwy 35**, 4000-2 or std. with a min. climb of 300' per NM to 7000.

DEPARTURE PROCEDURE: **Rwy 17**, climb direct MOG NDB. Continue climb to 10000 in MOG holding pattern (N, right turns, 172° inbound). **Rwy 35**, climb to 7000 via runway heading and 352° bearing from MOG NDB, then climbing right turn to 10000 direct MOG NDB. **All aircraft** depart MOG NDB at or above MEA for route of flight.



# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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## MONTEREY, CA

MONTEREY PENINSULA (MRY)

AMDT 6 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10L**, std. w/min. climb of 428' per NM to 1900 or 1700-2½ for climb in visual conditions. **Rwy 10R**, std. w/min. climb of 451' per NM to 1900 or 1700-2½ for climb in visual conditions. **Rwy 28L**, std. w/min. climb of 218' per NM to 800 or 1700-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10L**, climbing left turn heading 020° and SNS VORTAC R-231 to SNS VORTAC before proceeding on course or for climb in visual conditions, cross Monterey Peninsula airport at or above 1800, then via SNS VORTAC R-231 to SNS VORTAC before proceeding on course. **Rwy 10R**, climbing left turn heading 020° and SNS VORTAC R-231 to SNS VORTAC before proceeding on course or for climb in visual conditions, cross Monterey Peninsula airport at or above 1800, then via SNS VORTAC R-231 to SNS VORTAC before proceeding on course.

**Rwy 28L**, climbing right turn heading 045° and SNS VORTAC R-260 to SNS VORTAC before proceeding on course or for climb in visual conditions, cross Monterey Peninsula airport at or above 1800, then via SNS VORTAC R-231 to SNS VORTAC before proceeding on course. **Rwy 28R**, climbing right turn heading 045° and SNS VORTAC R-260 to SNS VORTAC before proceeding on course.

NOTE: **Rwy 10L**, obstruction light on DME 555' from DER, 217' right of centerline, 12' AGL/272' MSL. Tree 1.8 NM from DER, 2817' right of centerline, up to 100' AGL/859' MSL. **Rwy 10R**, obstruction light on DME 64' from DER, 284' left of centerline, 12' AGL/272' MSL. Tree 1.7 NM from DER, 2318' right of centerline, up to 100' AGL/859' MSL. **Rwy 28L**, tree 743' from DER, 619' left of centerline, up to 100' AGL/240' MSL. Tree 2.9 NM from DER, 2298' left of centerline, up to 100' AGL/640' MSL. Tree 2.9 NM from DER, 4578' left of centerline, 114' AGL/853' MSL. **Rwy 28R**, airplane 6' from DER, 179' left of centerline, 64' AGL/263' MSL.

## MOUNTAIN VIEW, CA

MOFFETT FEDERAL AFLD (NUQ)

AMDT 1 10322 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14L, 14R**, std. w/min. climb of 550' per NM to 4000 or 2800-3 for climb in visual conditions. **Rwys 32L, 32R**, std. w/min. climb of 285' per NM to 3500 or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 14L, 14R**, climbing right turn direct OSI VORTAC, thence...or for climb in visual conditions cross Moffett Federal Airfield at or above 1600 then via OSI R-066 to OSI VORTAC, thence...

**Rwys 32L, 32R**, climb heading 322° to 700, then climbing left turn heading 230° until receiving OSI VORTAC, then direct OSI, thence...or for climb in visual conditions cross Moffett Federal Airfield at or above 1600 then via OSI R-066 to OSI VORTAC, thence...

...continue climb in OSI VORTAC holding pattern (Southeast, left turns, 321° inbound) to cross OSI VORTAC at or above MEA for route of flight.

NOTE: **Rwy 14L**, trees beginning 96' from DER, 176' left of centerline, up to 100' AGL/134' MSL. Trees beginning 102' from DER, 47' right of centerline, up to 100' AGL/134' MSL. Vehicles on roadway and trees beginning 903' from DER, 172' right of centerline, up to 100' AGL/139' MSL. Trees beginning 1671' from DER, left and right of centerline, up to 100' AGL/144' MSL. **Rwy 14R**, trees beginning 259' from DER, 238' left of centerline, up to 100' AGL/134' MSL. Vehicles on roadway and trees beginning 392' from DER, 85' right of centerline, up to 100' AGL/139' MSL. Vehicles on roadway and trees beginning 851' from DER, 19' left of centerline, up to 100' AGL/144' MSL.

**Rwy 32L**, vehicles and trees beginning 100' from DER, 55' left of centerline, up to 100' AGL/104' MSL. Trees beginning 106' from DER, 95' right of centerline, up to 100' AGL/104' MSL. Trees beginning 1379' from DER, 322' right of centerline, up to 100' AGL/104' MSL. **Rwy 32R**, vehicles on roadway and trees beginning 35' from DER, 240' left of centerline, up to 100' AGL/104' MSL. Vehicles on roadway and trees beginning 113' from DER, 14' right of centerline, up to 100' AGL/109' MSL.

## NAPA, CA

NAPA COUNTY (APC)

AMDT 4 10154 (FAA)

DEPARTURE PROCEDURE: Use NAPAA DEPARTURE.

## NOVATO, CA

GNOSS FIELD (DVO)

AMDT 1 11013 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 400-2½ or std. w/min. climb of 575' per NM to 500. **Rwy 31**, 600-2½ w/min. climb of 285' per NM to 1500 or std. w/min. climb of 675' per NM to 800 or 2000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb heading 132° to 600 then turn left direct SGD VORTAC before proceeding on course. **Rwy 31**, climbing right turn direct SGD VORTAC before proceeding on course, or for climb in visual conditions cross Gnos Field at or above 1900' MSL then proceed direct SGD VORTAC before proceeding on course.

NOTE: **Rwy 13**, trees and hangars beginning at DER, 253' left of centerline, up to 50' AGL/369' MSL. Trees and hangars beginning at DER, 252' right of centerline, up to 50' AGL/369' MSL. **Rwy 31**, trees beginning 1.1 NM from DER, 445' left of centerline, up to 50' AGL/569' MSL.

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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## OAKDALE, CA OAKDALE

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn via heading 020° and LIN VORTAC R-124 to WRAPS INT/LIN 16.66 DME. Climb in WRAPS holding pattern (Northwest, right turn, 124° inbound) to cross WRAPS INT at or above MEA for direction of flight. **Rwy 28**, climb via heading 276° and LIN VORTAC R-146 to LIN VORTAC cross LIN VORTAC at or above MEA for direction of flight.

NOTE: **Rwy 10**, terrain beginning 388' from departure end of runway, up to 279' MSL. **Rwy 28**, powerline 3447' from departure end of runway, 407' right of centerline, 115' AGL/329' MSL.

## OAKLAND, CA

### METROPOLITAN OAKLAND INTL

DEPARTURE PROCEDURE: **Rwys 9L, 9R, 11, 15, 29**, turn right. **Rwys 27L, 27R**, maintain runway heading.

**Rwy 33**, turn left. **All aircraft** climb to 4000 or above via V107 to COMMO Int. If not at 4000 at COMMO Int, climb in holding pattern (E, right turns, 288° inbound) before proceeding on course.

## ORLAND, CA

### HAIGH FIELD

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn. **Rwy 33**, climbing right turn. **All aircraft** climb via CIC R-238 to GONGS Int. Aircraft departing GONGS Int 070° CW 240° or 290° CW 360° climb on course. All others climb in GONGS holding pattern (NE, right turns, 238° inbound) to depart GONGS Int at or above: 001° CW 069°, 3200'; 241° CW 289°, 2300'.

## OROVILLE, CA

### OROVILLE MUNI (OVE)

#### AMDT 2A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 1300-2 or std. w/min. climb of 260' per NM to 1700. **Rwy 30**, 400-1½ or std. w/min. climb of 245' per NM to 600.

DEPARTURE PROCEDURE: **Rwys 1, 30**, climbing left turn heading 170°. **Rwys 12, 19**, climbing right turn heading 290°. **All aircraft** climb via MXW R-052 to TALUM Int/MXW 16.9 DME. Continue climb on course.

NOTE: **Rwy 1**, light poles beginning 1368' from DER, 538' right of centerline, up to 71' AGL/255' MSL. Tree 513' from DER, 603' left of centerline, 52' AGL/236' MSL. Windsock 1143' from DER, 350' right of centerline, 19' AGL/213' MSL. Ground 191' from DER, 489' right of centerline, 190' MSL. **Rwy 12**, light on pole 128' from DER, 293' right of centerline, 27' AGL/203' MSL. **Rwy 19**, pole 902' from DER, 655' right of centerline, 36' AGL/217' MSL. Vehicle on road 819' from DER, 376' left of centerline, 15' AGL/203' MSL. **Rwy 30**, obstruction light on transmission tower 1.4 NM from DER, 1825' right of centerline, 250' AGL/442' MSL. Tree 642' from DER, 638' left of centerline, 52' AGL/244' MSL.

## PALO ALTO, CA

### PALO ALTO AIRPORT OF SANTA CLARA COUNTY

DEPARTURE PROCEDURE: **Rwy 13**, turn left. **Rwy 31**, turn right. **All aircraft** climb direct SJC VOR/DME before proceeding on course.

## PETALUMA, CA

### PETALUMA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climb to 2400 or above direct SGD VORTAC. **Rwy 29**, climb runway heading to 1500 then climbing left turn to 3000 direct SGD VORTAC. **All aircraft** continue climb to MEA for route of flight.

## PLACERVILLE, CA

### PLACERVILLE (PVF)

#### AMDT 2 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 23**, climb to 5000 via HNW R-226 then climbing right turn via HNW R-226 to HNW VOR/DME. Aircraft departing HNW VOR/DME R-180 CW R-303 climb on course; all others climb in HNW VOR/DME holding pattern (Hold SW, right turn, 048° inbound) to cross HNW VOR/DME at or above MEA/MCA for direction of flight before proceeding en route.

NOTE: **Rwy 23**, hangar 20' from departure end of runway, 340' right of centerline, 27' AGL/2586' MSL.

## PORTERVILLE, CA

### PORTERVILLE MUNI

TAKE-OFF MINIMUMS: **Rwy 12**, 200-1 or std. with a min. climb rate of 220' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn. **Rwy 30**, climbing left turn. **All aircraft** climb direct to TTE VOR/DME. Aircraft departing TTE R-146 CW R-330 climb on course. All others, continue climb in TTE holding pattern (NW, right turns, 143° inbound) to cross: TTE R-331 CW R-060, 8600'; R-061 CW R-145, 7000'.

NOTE: 559' frost fan 3000' east southeast runway 12.

## REDBLUFF, CA

### RED BLUFF MUNI (RBL)

#### AMDT 4 11041 (FAA)

DEPARTURE PROCEDURE: **Rwy 15**, climb direct RBL VORTAC, thence... **Rwy 33**, climbing right turn direct RBL VORTAC, thence... continue climb in RBL holding pattern (S, right turns, 341° inbound) to cross RBL VORTAC at or above MEA for route of flight.

NOTE: **Rwy 15**, WSK 5' from DER, 258' right of centerline, 18' AGL/361' MSL. Tree 2065' from DER, 879' left of centerline, 100' AGL/449' MSL. **Rwy 33**, trees beginning 468' from DER, 563' left of centerline, up to 54' AGL/387' MSL. Trees beginning 587' from DER, 493' right of centerline, up to 73' AGL/393' MSL.

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

## REDDING, CA

## REDDING MUNI

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 122° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course. **Rwy 16**, climbing left turn heading 110° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course. **Rwys 30, 34**, climbing right turn heading 110° and RBL R-344 to RBL VORTAC to 3000 before proceeding on course.

NOTE: **Rwy 12**, multiple trees and bush 86' from departure end of runway, 174' left of centerline up to 87' AGL/576' MSL, fence and equipment 282' from departure end of runway, 330' left of centerline, up to 8' AGL/500' MSL. **Rwy 30**, multiple trees beginning 1936' from departure end of runway, 210' left of centerline, up to 94' AGL/594' MSL, multiple trees beginning 1686' from departure end of runway, 326' right of centerline, 68' AGL/568' MSL. Multiple poles and antenna on hangar beginning 289' from departure end of runway, 385' left of centerline up to 34' AGL/534' MSL. Rod on pole 850' from departure end of runway, 524' right of centerline, 36' AGL/536' MSL. Powerline 2419' from departure end of runway, 1091' left of centerline 84' AGL/584' MSL. Hangar 1126' from departure end of runway, 528' left of centerline, 37' AGL/537' MSL. **Rwy 34**, sign 98' from departure end of runway, 356' left of centerline 5' AGL/510' MSL, tree 588' from departure end of runway, 483' left of centerline 16' AGL/521' MSL.

## RIO VISTA, CA

## RIO VISTA MUNI

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

**Rwys 14, 25, 32** turn right. All aircraft climb direct SAC VORTAC.

## SACRAMENTO, CA

## MC CLELLAN AIRFIELD (MCC)

AMDT 1 08101 (FAA)

TAKE-OFF MINIMUMS: STANDARD.

## SACRAMENTO EXECUTIVE (SAC)

## ORIG 08325 (FAA)

NOTE: **Rwy 2**, multiple trees 1128' from departure end of runway, 108' left of centerline, up to 76' AGL/96' MSL. Antenna 1376' from departure end of runway, 663' left of centerline, 51' AGL/71' MSL. Trees 1858' from departure end of runway, 137' right of centerline, 73' AGL/93' MSL. **Rwy 12**, multiple trees 518' from departure end of runway, 26' left of centerline, up to 83' AGL/98' MSL. Light pole 507' from departure end of runway, 336' left of centerline, 37' AGL/52' MSL. Transmission pole 3971' from departure end of runway 647' left of centerline, 130' AGL/154' MSL. Multiple trees 475' from departure end of runway, 476' right of centerline up to 97' AGL/112' MSL. Light poles 711' from departure end of runway, 241' right of centerline, 36' AGL/51' MSL. **Rwy 16**, light pole 22' from departure end of runway, 481' left of centerline, 38' AGL/53' MSL. Antenna 540' from departure end of runway, 516' left of centerline, 53' AGL/67' MSL. Multiple trees beginning 1317' from departure end of runway, 36' left of centerline, up to 78' AGL/88' MSL. Multiple trees beginning 588' from departure end of runway, 195' right of centerline, up to 67' AGL/77' MSL. **Rwy 20**, multiple trees beginning 850' from departure end of runway, 626' left of centerline, up to 92' AGL/107' MSL. Multiple trees beginning 714' from departure end of runway, 515' right of centerline, up to 66' AGL/81' MSL. **Rwy 30**, obstruction light on hangers 460' from departure end of runway, 360' right of centerline, 25' AGL/43' MSL. Multiple trees beginning 631' from departure end of runway, 195' right of centerline, up to 56' AGL/74' MSL. Multiple trees beginning 1331' from departure end of runway, 247' left of centerline, up to 90' AGL/110' MSL. Antenna on building 1543' from departure end of runway, 442' left of centerline, 47' AGL/67' MSL. **Rwy 34**, trees 1724' from departure end of runway, 854' left of centerline, 56' AGL/74' MSL. Tree 2233' from departure end of runway, 1062' right of centerline, 79' AGL/99' MSL.

## SACRAMENTO INTL

DEPARTURE PROCEDURE: **Rwy 16L**, climb via heading 164° to 800 before turning east.

## SACRAMENTO MATHER

DEPARTURE PROCEDURE: **Rwys 4L, 4R**, climbing right turn direct SAC VORTAC. **Rwys 22 L, 22R** climb direct SAC VORTAC.

## SALINAS, CA

## SALINAS MUNI

TAKE-OFF MINIMUMS: **Rwys 3, 14, 21, 32**, NA.

**Rwy 8**, CAT C, D 3600-2 or std. with a min. climb of 420' per NM to 4100. **Rwy 13**, CAT C, D 3600-2 or std. with min. climb of 500' per NM to 4000. **Rwy 31**, RVR/24, FAR 135.

DEPARTURE PROCEDURE: **Rwys 8, 13, 26**, turn right. **Rwy 31**, turn left. Climb on SNSR-275 to 2000, then climbing right turn to cross SNS VORTAC at or above 3000.





# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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## SAN ANDREAS, CA

CALAVERAS CO-MAURY RASMUSSEN FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 1800-5 or std. with a min. climb of 290' per NM to 3100.

DEPARTURE PROCEDURE: **Rwy 13**, climb runway heading to 3100, then climbing right turn via LIN R-085 to LIN VORTAC. **Rwy 31**, climb via heading 311° to 3000, then climbing left turn via Linden (LIN) VORTAC R-029 to LIN VORTAC.

## SAN CARLOS, CA

SAN CARLOS (SQL)

AMDT 1 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 30**, NA.

DEPARTURE PROCEDURE: **Rwy 12**, climbing left turn via heading 120° and SJC VOR/DME R-281 to SJC VOR/DME before proceeding on course.

NOTE: **Rwy 12**, ground 0' from DER, 148' left of centerline, 0' AGL/11' MSL. Building 2' from DER, 167' right of centerline, 27' AGL/30' MSL. Levee beginning 117' from DER, 90' left of centerline, up to 12' AGL/12' MSL. Pole 715' from DER, 294' right of centerline, 34' AGL/38' MSL. Tower 1674' from DER, 741' right of centerline, 106' AGL/111' MSL.

## SAN FRANCISCO, CA

SAN FRANCISCO INTL

TAKE-OFF MINIMUMS: **Rwy 19L**, 2000-2 or std. with a min. climb of 520' per NM to 2300. **Rwy 19R**, 2000-2 or std. with a min. climb of 500' per NM to 2300.

**Rwys 28L, 28R**, 800-2 or std. with a min. climb of 270' per NM to 1000.

DEPARTURE PROCEDURE: **Rwys 1L, 1R, 28L, 28R**, climb runway heading to 2000. **Rwys 10L, 10R, 19L, 19R**, climbing left turn via heading 050° and SFOR-090. **All aircraft** continue climb on course.

## SAN JOSE, CA

NORMAN Y MINETA SAN JOSE INTL (SJC)

AMDT 6B 10238 (FAA)

TAKE-OFF MINIMUMS: **Rwys 11, 12R**, 400-2½ or std. with a min. climb of 260' per NM to 500. **Rwy 12L**, 400-1½ or std. with a min. climb of 278' per NM to 500.

DEPARTURE PROCEDURE: **Rwys 11, 12L, 12R**, climbing right turn via heading 315° to 2000, then via OAK R-135 to OAK VORTAC before proceeding on course. **Rwys 29, 30L, 30R**, Climb via heading 312° to 2000, then via OAK R-132 to OAK VORTAC before proceeding on course.

NOTE: **Rwy 11**, tree 1837' from DER, 230' right of centerline, 61' AGL/116' MSL. Tree 3410' from DER, 306' right of centerline, 92' AGL/154' MSL. **Rwy 12L**, trees 286' from DER, 68' right of centerline, up to 62' AGL/124' MSL. Multiple trees and antennas beginning 191' from DER, 228' left of centerline, up to 82' AGL/144' MSL. Tower 1731' from DER, 729' left of centerline, 86' AGL/153' MSL. Tower 3047' from DER, 543' left of centerline, 73' AGL/144' MSL. Light on blast fence 156' from DER, 57' left of centerline, 11' AGL/73' MSL. Light pole 191' from DER, 81' left of centerline, 16' AGL/78' MSL. Building 1.34 NM from DER, 1008' left of centerline, 243' AGL/329' MSL. **Rwy 12R**, multiple trees 269' from DER, 149' right of centerline, up to 80' AGL/100' MSL. Multiple trees 285' from DER, 193' left of centerline, up to 82' AGL/144' MSL. Pole 1948' from DER, 688' right of centerline, 66' AGL/128' MSL. Pole 1597' from DER, 685' right of centerline, 56' AGL/118' MSL. Obstruction light on blast fence 45' from DER, 115' right of centerline, 13' AGL/75' MSL. Vehicles on road 338' from DER, left and right of centerline, up to 17' AGL/82' MSL. Pole 1273' from DER, 279' right of centerline, 42' AGL/104' MSL. Obstruction light on localizer, 10' from DER, on centerline, 6' AGL/68' MSL. Tower 3046' from DER, 1243' left of centerline, 82' AGL/144' MSL. Building 1.34 NM from DER 1708' left of centerline, 243' AGL/329' MSL. **Rwy 29**, tree 2252' from DER, 114' left of centerline, 86' AGL/125' MSL. OL on GS 821' from DER, 400' right of centerline, 35' AGL/74' MSL. **Rwy 30L**, multiple antennas, poles, towers, and trees beginning 1014' from DER, 350' left of centerline, up to 59' AGL/94' MSL. Multiple antennas, poles, and trees beginning 1279' from DER, 379' right of centerline, up to 52' AGL/88' MSL. **Rwy 30R**, multiple antennas, fences, and poles beginning 139' from DER, 40' right of centerline, up to 95' AGL/124' MSL. Multiple poles and trees beginning 185' from DER, 38' left of centerline, up to 51' AGL/85' MSL.

## REID-HILLVIEW OF SANTA CLARA COUNTY

TAKE-OFF MINIMUMS: **Rwys 13L, 13R**, NA - environmental.

DEPARTURE PROCEDURE: Use DECOT DEPARTURE.

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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**SAN MARTIN, CA**

SOUTH COUNTY AIRPORT OF SANTA CLARA COUNTY

TAKE-OFF MINIMUMS: **Rwy 14, NA. Rwy 32**, 400-2 or std. with a min. climb of 350' per NM to 4000.DEPARTURE PROCEDURE: **Rwy 32**, all aircraft climb runway heading to 2200, aircraft departing northwest via V-485, climbing left turn to 4600, heading 270° to intercept SJC R-121 (V-485) to SJC VOR/DME proceed on course; aircraft departing southeast via V-485, climbing left turn to 4600, heading 170° to intercept SJC R-121 (V485) southeast bound to GILRO Int and proceed on course.**SANTA ROSA, CA**

CHARLES M. SCHULZ-SONOMA COUNTY

TAKE-OFF MINIMUMS: **Rwy 1**, std. with a min. climb of 267' per NM to 2400, or 1000-2½ for climb in visual conditions. **Rwy 32**, std. with a min. climb of 314' per NM to 2400, or 1000-2½ for climb in visual conditions.DEPARTURE PROCEDURE: **Rwys 1, 32**, climbing left turn heading 164°, thence...or climb in visual conditions to cross the STS VOR/DME southwestbound at or above 1100, thence...**Rwy 14**, climbing right turn heading 250°, thence...**Rwy 19**, climb on heading 190°, thence... Intercept and climb via STS R-202 to FREES INT, cross FREES at or above MEA for route of flight or continue climb in FREES holding pattern (SE, right turns, PYE VORTAC 334.73 inbound) to MEA for route of flight.NOTE: **Rwy 1**, tree 739' from departure end of runway, 525' left of centerline, 40' AGL/141' MSL. **Rwy 14**, multiple trees beginning 321' from departure end of runway, 421' left of centerline up to 73' AGL/172' MSL. Tree 2113' from departure end of runway, 721' right of centerline, 77' AGL/176' MSL. **Rwy 19**, posts 39' from departure end of runway, 259' right of centerline, 7' AGL/126' MSL. Multiple trees beginning 1482' from departure end of runway, 461' right of centerline, up to 100' AGL/253' MSL. Multiple trees beginning 1666' from departure end of runway, 58' left of centerline, up to 55' AGL/257' MSL. **Rwy 32**, windsock 39' from departure end of runway, 341' left of centerline, 25' AGL/133' MSL. Multiple trees beginning 810' from departure end of runway, 87' right of centerline up to 50' AGL/205' MSL. Multiple trees beginning 2419' from departure end of runway, 167' left of centerline, up to 50' AGL/216' MSL.**SOUTH LAKE TAHOE, CA**

LAKE TAHOE

TAKE-OFF MINIMUMS: **Rwy 18**, 4000-3 or std. with min. climb of 700' per NM to 9800. **Rwy 36**, 2700-3 or std. with a min. climb of 400' per NM to 8300.DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 9800, then continue climbing right turn via heading 280° and SWR R-152 to SWR VOR/DME.**Rwy 36**, climb runway heading to 8300, then continue climbing left turn via heading 340° and SWR R-102 to SWR VOR/DME. Then all aircraft proceed on course.**STOCKTON, CA**

STOCKTON METROPOLITAN (SCK)

ORIG 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29R**, 300-1½ or std. w/ min. climb of 210' per NM to 300 or alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1300' prior to departure end of runway.NOTE: **Rwy 11L**, truck on road 199' from departure end of runway, 439' left of centerline, 15' AGL/49' MSL. Obstruction light on blast fence and antenna on building beginning 294' from departure end of runway, 39' right of centerline, up to 20' AGL/50' MSL. **Rwy 29L**, antenna on building 2956' from departure end of runway, 1204' left of centerline, 90' AGL/117' MSL. Stack 5562' from departure end of runway, 1721' right of centerline, 143' AGL/171' MSL. **Rwy 29R**, obstruction light on grain elevator, 1.0 NM from departure end of runway, 1882' left of centerline, 161' AGL/191' MSL. Light tower and rod on field light tower beginning 245' from departure end of runway, 1' left of centerline up to 44' AGL/71' MSL. Stacks and light on silo beginning 256' from departure end of runway, 381' right of centerline, up to 144' AGL/171' MSL.**SUSANVILLE, CA**

SUSANVILLE MUNI

DEPARTURE PROCEDURE: Use AMEDEE DEPARTURE.

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# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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## TRACY, CA

TRACY MUNI (TCY)  
AMDT 3 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 700-3 or std. w/ a min. climb of 320' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 8**, climb to 3000 via heading 073° and MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course. **Rwy 12**, climbing left turn to 3000 to intercept MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course. **Rwy 26**, climbing right turn to 3000 via heading 150° and MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course. **Rwy 30**, climbing right turn to 3000 via heading 150° to intercept MOD VOR/DME R-264 to MOD VOR/DME before proceeding on course.

NOTE: **Rwy 8**, tree 472' from DER, 198' left of centerline, 50' AGL/194' MSL. Fence 167' from DER, 8' right of centerline, 25' AGL/176' MSL. Vehicle on road 241' from DER, 412' left of centerline, 15' AGL/183' MSL. Vehicles on roads starting 241' from DER, 7' right of centerline, up to 15' AGL/189' MSL. Poles starting 403' from DER, 204' left of centerline, up to 54' AGL/208' MSL. Poles starting 727' from DER, 49' right of centerline, up to 54' AGL/212' MSL. **Rwy 12**, trees starting 436' from DER, 251' right of centerline, up to 72' AGL/253' MSL. Conveyor 1995' from DER, 504' left of centerline, 66' AGL/270' MSL. Poles starting 832' from DER, 396' right of centerline, up to 56' AGL/240' MSL. Obstruction light on hopper 1934' from DER, 274' right of centerline, 74' AGL/255' MSL. Vehicles on road starting 133' from DER, 272' left of centerline, up to 15' AGL/206' MSL. Fence 32' from DER 405' left of centerline, 25' AGL/194' MSL. **Rwy 26**, tree 1173' from DER, 180' right of centerline, 35' AGL/234' MSL. Trees starting 1067' from DER, 125' left of centerline, up to 35' AGL/794' MSL. Vehicle on road 236' from DER, 150' left of centerline, 15' AGL/214' MSL. Fence 69' from DER, 133' left of centerline, 23' AGL/203' MSL. Rising terrain 11105' from DER, 2814' left of centerline, up to 739' MSL. **Rwy 30**, trees starting 438' from DER, 30' right of centerline, up to 35' AGL/209' MSL. Tree 1079' from DER, 82' left of centerline, 35' AGL/214' MSL. Obstruction light on hopper 985' from DER, 353' right of centerline, 72' AGL/236' MSL. Bush 195' from DER, 364' left of centerline, 25' AGL/189' MSL. Light pole 1149' from DER, 160' left of centerline, 47' AGL/211' MSL. Obstruction light on building 2289' from DER, 65' right of centerline, 74' AGL/238' MSL.

## TRAVIS AFB (KSUU)

FAIRFIELD, CA. . . . . 11069

**All Rwy:** Comply with assigned SID or ATC radar vectors.

DEPARTURE PROCEDURE: **Rwy 3L**, Climb on a heading between 344° CW to 137° from DER. **Rwy 3R**, Climb on a heading between 328° CW to 140° from DER. **Rwy 21L/R**, Climb on a heading between 187° CW to 237° from DER.

TAKE-OFF OBSTACLES: **Rwy 3L**, Potential vehicle, 15' AGL/72' MSL, 616' from DER, 289' left of centerline. Potential vehicle, 15' AGL/71' MSL, 615' from DER, 267' right of centerline. **Rwy 21L**, Light pole 15' AGL/83' MSL, 148' from DER, 546' left of centerline. Light pole 15' AGL/84' MSL, 346' from DER, 547' left of centerline. Light pole 15' AGL/84' MSL, 521' from DER, 548' left of centerline. Light pole 15' AGL/83' MSL, 702' from DER, 549' left of centerline. Light pole 15' AGL/84' MSL, 880' from DER, 549' left of centerline. Light pole 15' AGL/85' MSL, 926' from DER, 661' left of centerline.

## TRUCKEE, CA

TRUCKEE-TAHOE (TRK)  
AMDT 4 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwys 10, 19**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwys 1, 28**, use TRUCK DEPARTURE.

## TULARE, CA

MEFFORD FIELD

DEPARTURE PROCEDURE: **Rwy 13**, climbing right turn. **Rwy 31**, climbing left turn. **All aircraft** climb direct to VIS VOR/DME. Aircraft departing VIS R-001 CW R-140 continue climb in VIS holding pattern (E, right turns, 287° inbound) to cross VIS VOR/DME at or above 4000. All other aircraft climb on course.

## UKIAH, CA

UKIAH MUNI

TAKE-OFF MINIMUMS: **Rwy 15, NA**. **Rwy 33**, 300-1 and min. climb of 350' per NM to 4000.

DEPARTURE PROCEDURE: Climb to 4000 via heading 350° then climbing left turn to 6000 direct ENI.

## VACAVILLE, CA

NUT TREE (VCB)

AMDT 4 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 20**, std. w/ min. climb of 424' per NM to 1600, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 2**, climbing right turn to intercept SAC R-242 to SAC VORTAC, to 2000 before proceeding on course. **Rwy 20**, climbing left turn to intercept SAC R-242 to SAC VORTAC, to 2000 before proceeding on course, or, for climb in visual conditions: cross Nut Tree Airport eastbound at or above 1300, then climb to 2000 via SAC R-242 to SAC VORTAC, proceed on course.

NOTE: **Rwy 2**, trees beginning 222' from DER, 514' left of centerline up to 106' AGL/225' MSL. Light pole 337' from DER, 534' left of centerline, 28' AGL/147' MSL. **Rwy 20**, pole 161' from DER, 500' left of centerline, 120' AGL/239' MSL. Trees beginning 269' from DER, 335' left of centerline, up to 117' AGL/236' MSL. Pole 777' from DER, 436' left of centerline, 119' AGL/238' MSL. Windsock 6' from DER, 166' right of centerline, 8' AGL/127' MSL. Fence 193' from DER, 202' right of centerline, 3' AGL/122' MSL.

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

## VISALIA, CA

VISALIA MUNI (VIS)

AMDT 3 09239 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 230° to 2000 to intercept V23. **Rwy 30**, climbing left turn via heading 230° to 2000 to intercept V23.

NOTE: **Rwy 12**, tree 774' from DER, 618' right of centerline, 46' AGL/340' MSL. Tree 1327' from DER, 823' left of centerline, 55' AGL/349' MSL. **Rwy 30**, multiple trees beginning 179' from DER, 260' left of centerline, up to 54' AGL/343' MSL. Antenna on building 285' from DER, 250' right of centerline, 16' AGL/305' MSL. Truck on road 522' from DER, on centerline, 17' AGL/342' MSL. Railroad 690' from DER, 549' left of centerline, 23' AGL/317' MSL. Multiple trees beginning 876' to 3029' from DER, 341' to 461' left of centerline, up to 90' AGL/379' MSL. Multiple trees beginning 1886' from DER, 103' right of centerline, up to 58' AGL/347' MSL.

## WATSONVILLE, CA

WATSONVILLE MUNI (WVI)

AMDT 5 11013 (FAA)

DEPARTURE PROCEDURE: Use WATSONVILLE DEPARTURE.

## WILLITS, CA

ELLS FIELD-WILLITS MUNI

DEPARTURE PROCEDURE: **Rwy 16**, use MENDOCINO RNAV DEPARTURE. **Rwy 34**, use FLUEN RNAV DEPARTURE.

## WILLOWS, CA

WILLOWS-GLENN COUNTY (WLW)

AMDT 1A 10182 (FAA)

DEPARTURE PROCEDURE: **Rwy 13**, climbing right turn. **Rwy 16**, climb heading 161°. **Rwys 31, 34**, climbing left turn. **All aircraft** climb direct to MXW VORTAC. Aircraft departing MXW Vortac R-330 CW R-220, climb on course. All others continue climb in MXW holding pattern (S, 350° inbound, left turns) to depart MXW Vortac 220° CW 290°, 6500, 291° CW 330°, 5500.

NOTE: **Rwy 34**, 55' AGL pole 530' from DER, 430' right of centerline. Pole 917' from DER, 404' right of centerline, 55' AGL/193' MSL.

## WOODLAND, CA

WATTS-WOODLAND (O41)

AMDT 3 09127 (FAA)

DEPARTURE PROCEDURE: **Rwy 18**, climb heading 185° and ILA R-151 to EMBER INT/ILA 48 DME before proceeding on course. **Rwy 36**, climbing left turn via heading 320° and ILA R-145 to ILA VORTAC before proceeding on course.

NOTE: **Rwy 18**, tree 2478' from DER, 283' right of centerline, 100' AGL/249' MSL. Vehicle on road 192' from DER, on centerline, 15' AGL/144' MSL. **Rwy 36**, tree 453' from DER, 69' left of centerline, 100' AGL/224' MSL. Vehicle on road 350' from DER, on centerline, 15' AGL/134' MSL. Tree 4489' from DER, 1688' left of centerline, 100' AGL/234' MSL.

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